

IN THE DRAWINGS

The attached sheet of drawing includes changes to Figure 1. This sheet replaces the original sheet of Figure 1.

REMARKS

Reconsideration of this application as amended is respectfully requested.

In the Office Action, claims 1-32 are pending. Claim 30 is allowed. Claims 31-32 are objected to but would be allowable if amended to overcome the objections. Claims 1-13 and 16-28 are allowable if rewritten or amended to overcome the rejections. Claims 1-29 stand rejected. In this response, claims 1-3, 5, 13-17, 19, 29 and 31 have been amended. No new claims have been added. No claims have been canceled. Thus, claims 1-32, as amended, remain pending. Support for the amendments can be found throughout the specifications as filed. No new matter has been added. Applicant reserves all rights with respect to the applicability of the Doctrine of Equivalents.

Objection in the Drawings

The drawings of Figure 1 are objected to because only that which is old is illustrated. In response, applicant attaches a replacement sheet that contains a legend "prior art" to comply with the Examiner's request. Consequently, applicant respectfully requests withdrawal of the objection to Figure 1.

Objections in the Claims

Claims 1-13, 15-28 and 31-32

Claims 1-13, 15-28 and 31-32 are objected to because of informalities. In view of foregoing amendments, applicant respectfully submits that the objection has been overcome. Accordingly, withdrawal of the objections is respectfully requested.

Rejections

Rejections under 35 U.S.C. § 112

Claims 1-13 and 15-28

Claims 1-13 and 15-28 stand rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter. In view of foregoing amendments, applicant respectfully submits that claims 1-13 and 15-28, as

amended, are now in compliance with the requirements of 35 U.S.C. §112, second paragraph. Withdrawal of the rejection is respectfully requested.

Rejections under 35 U.S.C. § 102

Claims 14 and 29

Claims 14 and 29 stand rejected under 35 U.S.C. §102(e) as being anticipated by Mutsuhiro Ohmori, US Patent No. 6,647,502 (herein after “Ohmori”). Applicant hereby reserves the right to swear behind Ohmori at a later date. However, applicant respectfully submits that applicant’s claims 14 and 29, as amended, are not anticipated by the cited reference.

Specifically, for example, independent claim 14, as amended, includes the limitations:

“storing data in a FIFO; and
processing the data from the FIFO in a logic block using a clock digitally generated via programmable direct digital synthesis, wherein the speed of the clock is adjusted according to the number of words stored in the FIFO”
(emphasis added)

Applicant’s amended claim 14 includes the limitations of processing data from a FIFO using a clock digitally generated via direct digital synthesis. It is respectfully submitted that Ohmori lacks the above noted limitations.

Rather, Ohmori discloses a power supply controlling circuit including a clock controller to reduce power consumption (Ohmori, Abstract). Ohmori also teaches a system clock signal outputted from a clock controller (Ohmori, col. 5, lines 31-32). In Ohmori, the clock controller circuit includes a divider, a counter and a PLL (Phase Locked Loop) circuit (Ohmori, col. 6, lines 7-45). Ohmori’s PLL is composed of two dividers, a phase comparator, a loop filter and a voltage controlled oscillator which outputs the voltage as a system clock signal (Ohmori, col. 6, lines 43-58). According to Ohmori, the clock controller is associated with two positive numbers (A and N) and an upper limit value of the counter (Ohmori, col. 6, lines 9-11, lines 31-33, lines 59-61). However, Ohmori is completely silent about a clock digitally generated via programmable direct digital synthesis.

In order to anticipate a claim, each and every limitation of the claim must be taught by the cited reference. It is respectfully submitted that Ohmori fails to disclose the limitations set

forth above. Therefore, it is respectfully submitted that independent claim 14, as amended, is not anticipated by Ohmori.

Independent claim 29, as amended, includes similar limitations as noted above. Therefore, for at least the similar reasons as discussed above, it is respectfully submitted that claim 29, as amended, is not anticipated by Ohmori.

Allowable Subject Matter

Applicant notes with appreciation that the Examiner has allowed claim 30. Applicant also notes with appreciation the Examiner's assertion that claims 31-32 are objected to but allowable if amended to overcome the objections. Applicant further notes with appreciation the Examiner's assertion that claims 1-13 and 16-28 are allowable if rewritten or amended to overcome the rejections. In view of foregoing amendments, applicant respectfully submits that claims 1-13, 16-28 and 31-32, as amended, are now in condition for allowance, and requests allowance of said claims.

CONCLUSION


In view of the foregoing, it is respectfully submitted that the applicable rejections and objections have been overcome.

Authorization is now given to charge our Deposit Account No. 02-2666 for any charges that may be due. Furthermore, if an extension is required, then applicant hereby requests such an extension.

Respectfully submitted,

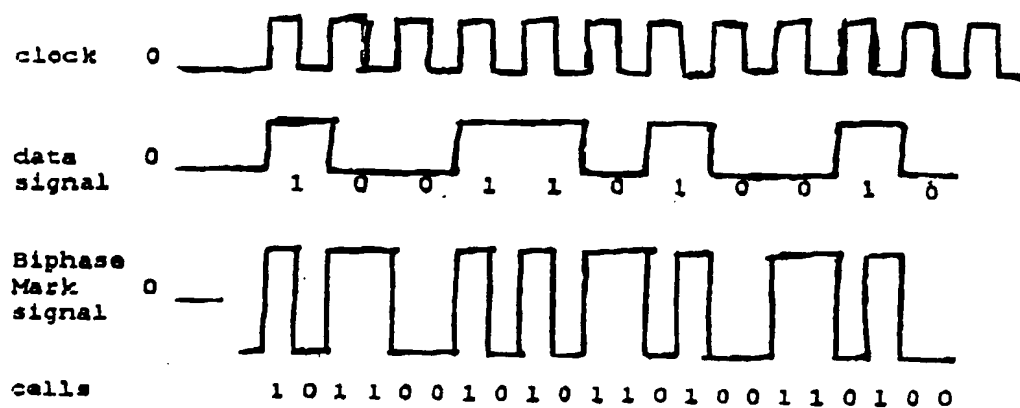
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(Prior Art)

FIG 1.